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EXAMINER

DHARIA, PRABODH M

ART UNIT

PAPER NUMBER

2673

DATE MAILED: 09/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/628,851	Applicant(s) CONNOR ET AL.	
	Examiner Prabodh M. Dharja	Art Unit 2673	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 August 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-62 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5, 7-9, 11-16, 18-31, 33, 34, 36, 38-42, 44-49, 51, 52, 54 and 57-62 is/are rejected.
- 7) ☒ Claim(s) 6, 10, 17, 32, 35, 37, 43, 50, 53, 55 and 56 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 July 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>10-18-00, 06-21-04</u> . | 6) <input type="checkbox"/> Other: _____ |

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1. **Status:** Receipt is acknowledged of papers submitted on 08-02-2005 under request for reconsideration, which have been placed of record in the file. Claims 1-62 are pending in this action.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-4 rejected under 35 U.S.C. 103(a) as being unpatentable over Barnard (6,456,938 B1) in view of DeLorme et al. (5,848, 373).

Regarding Claim 1, Barnard teaches a system for processing markup data for a map (Col. 15, Lines 39-47) on a personal digital assistant (Col. 19, Lines 4-7) comprising: (a) a personal digital assistant (Col. 19, Lines 4-7); (b) an application on the personal digital assistant (Col. 15, Lines 39-47, Col. 19, Lines 4-7), the application configured to: (i) obtain a map as an encoded (Col. 14, lines 34-67, Barnard does teach encoding as every minute information (e. g. lines, points and features) is spatially vectorized to be decoded into a map file, Col. 21, Lines 18-45, begins marking feature per each holes, Col. 24, Lines 40,41, view the marking, Col. 25, Lines 34-37, the data is uploaded as a file and Col. 25, Lines 63-67, saved on non volatile RAM or removable Ram Card acts as a disk) and spatially indexed vector representation of geographic

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data from a server (Col. 14, Lines 34-64, Col. 18, Lines 58-60, where each spatially vectored feature are labeled (another word for indexed defined by Webster dictionary); (ii) display the map on a screen of the personal digital assistant (Col. 15, Lines 39-42, Col. 19, Lines 4-12); (iii) obtain markup data (Col. 21, Lines 18-45, begins marking feature per each holes, Col. 24, Lines 40,41, view the marking, Col. 25, Lines 34-37, the data is uploaded as a file and Col. 25, Lines 63-67, saved on non volatile RAM or removable Ram Card acts as a disk); (iv) create a file (Col. 17, Lines 12-15 receives map data file and Col. 18, Lines 10-18, adds feature of his choice creates markup Map data file Col. 21, Lines 18-45, begins marking feature per each holes, Col. 24, Lines 40,41, view the marking, Col. 25, Lines 34-37, the data is uploaded as a file and Col. 25, Lines 63-67, saved on non volatile RAM or removable Ram Card acts as a disk); (v) upload the file of markup data from the personal digital assistant to the server (Col. 16, Lines 66,67, the Palm can upload or down load from internet i.e. server, Col. 36, Lines 33-42, Col. 6, Lines 14-17).

However, Bernard fails to teach or recite in specification obtain a map as an encoded and spatially indexed vector representation of geographic data from a server.

However, Delorme et al. teaches obtain a map as an encoded (Col.63, Lines 60-63) and spatially (Col. 38, Lines 17-22) indexed (Webster defines as ID or label, in this case grid name (Col. 63, Lines 60-63) vector representation of geographic data (Col. 52, Lines 31-38, Col. 63-38-58) from a server (Col. 61, Line 1, CAMLS server).

Thus it would have been obvious to one in the ordinary skill in the art at the time of invention was made to incorporate the teaching of Delorme et al. in to the Barnard to be able to

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have encoded map data for correlation and coordination of spatially related vectored data between digital different electronic medias.

Regarding Claim 2, Barnard teaches a system for processing markup data for a map (Col. 15, Lines 39-47, Col. 21, Lines 18-45, begins marking feature per each holes, Col. 24, Lines 40,41, view the marking, Col. 25, Lines 34-37, the data is uploaded as a file and Col. 25, Lines 63-67, saved on non volatile RAM or removable Ram Card acts as a disk) (a) a personal digital assistant (Col. 19, Lines 4-7); and (b) an application on the personal digital assistant (Col. 13, Lines 33-41), the application configured to: (i) obtain a file comprised of markup data for a map (Col. 18, Lines 14-18, Col. 20, Lines 2-5, 10-14, Col. 36, Lines 33-55, Col. 25, Lines 50-55); and (ii) upload the file to a server (Col. 36, Lines 33-42, Col. 6, Lines 14-17, Col. 25, Lines 34-38).

Regarding Claim 3, Barnard teaches the markup data comprises pixel data (Col. 12, Lines 37-39) for a markup entity (Col. 21, Lines 3-63).

Regarding Claim 4, Barnard teaches the personal digital assistant (Col. 19, Lines 4-7); obtains the file by obtaining markup data from a user (Col. 18, Lines 14-18, Col. 21, Lines 3-63).

4. Claims 5, 7-9, 11-16, 18-31, 33, 34, 36, 57-60 rejected under 35 U.S.C. 103(a) as being unpatentable over Barnard (6,456,938 B1) in view of DeLorme et al. (5,848, 373) as applied to claims 1-4 above, and further in view of Ching (6,560,620 B1).

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Regarding Claim 5, Barnard teaches the markup data is a redline line (Col. 13, Lines 49-52, Col. 13, Lines 34-41, Col. 14, Lines 9-11, (Geometric scribbles (points, lines polygon, symbols), GPS input coordinates, annotations and a geo-reference systems) (Col. 15, Lines 36-54, 56-58, Col. 16, Col. 16, Lines 37-42, Col. 21, Lines 47-62, Col. 22, Lines 14-40, Col. 23, Lines 2-7, 9-27)).

However, Barnard modified by Delorme et al. fail to recite specifically the markup data is a redline line.

However, Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10, Lines 18-21).

Thus it would have been obvious to one in the ordinary skill in the art at the time of invention was made to incorporate the teaching of Ching in to the Barnard modified by Delorme et al. to be able to have system that can encode mark-up data as redline and have a capability to store, retrieve and compare with other documents.

Regarding Claim 7, Barnard teaches (a) display a text edit dialog box on the screen (Col. 20, Lines 56-60) of the personal digital assistant (Col. 19, Lines 4-7); and (b) accept text user input in the text edit dialog box (Col. 20, Lines 56-60).

Regarding Claim 8, Barnard teaches the markup data (Col. 15, Lines 45-47) is note (Col. 20, Lines 56-60, Col. 21, Lines 53-67, Col. 22, Lines 2-5).

Regarding Claim 9, Barnard teaches (a) determine when a new note object has been selected (Col. 20, Lines 56-58, Col. 21, Lines 48-55); (b) accept a user selection of; an anchor point in a display of a map on the personal digital assistant (Col. 21, Lines 55-60); (c) display a text entry screen on the personal digital assistant (Col. 20, Lines 56-60, Col. 21, Lines 53-67, Col. 22, Lines 2-5); (d) accept text user input in the text entry screen (Col. 21, lines 65-67); and (e) display an icon (Webster defines icon as pictorial representation, Col. 18, Lines 58-60, Col. 23, Lines 2-7, Col. 24, Lines 2-9, where “CoG” or “FoG” are ICON representing a specific file to be opened by stylus, Col. 21, Lines 53-55 where each button displayed are pictorial representation and are ICON) representative of a note at the anchor point (Col. 21, Lines 55-60, Col. 22, Lines 2-5 starting and ending points are anchor point it is well known to one ordinary skill in the art a predetermined anchor point of zone, e.g. its centroid, its top left corner US PN 6,724,382 Col. 7, Lines 59-62).

Delorme et al. teaches (e) display an icon (Webster defines icon as pictorial representation, Col. 48, lines 62-67, Col. 58, Lines 16-26) representative of a note at the anchor point (Col. 48, Lines 13-15, Boothbay Me is an anchoring point, it is well known to one ordinary skill in the art a predetermined anchor point of zone, e.g. its centroid, its top left corner US PN 6,724,382 Col. 7, Lines 59-62).

Regarding Claim 11, Barnard teaches the markup data is uploaded to a server directory on the server using a hypertext transfer protocol PUT request (Col. 17, Lines 49-52, Col. 15, Lines 32-36, Lines 45-47, It is well Known to one ordinary skill in the art dealing with internet software that The most wide spread method of providing information over the Internet is via the

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World Wide Web (the Web). The Web consists of a subset of the computers connected to the Internet; the computers in this subset run Hypertext transfer Protocol (HTTP) servers (Web servers) which provides Hypertext transfer Protocol "PUT" and Hypertext Transmission Protocol "GET" command US PN 6665824 Col. 7, Lines 42-47, Col. 10, Lines 19-23).

Regarding Claim 12, Barnard teaches the application on the personal digital assistant (Col. 12, Lines 15-25) further configured to: (a) download any new map sets (Col. 17, Lines 36-42, Col. 20, Lines 11,12); (b) delete un-referenced map sets (Col. 17, Lines 46-56, it is well known to one ordinary skill in the art as access internet anything that is not saved such as unreferenced material automatically gets overwritten or deleted); and (c) delete any markup data associated with the deleted map sets (Col. 20, Lines 43-49).

Regarding Claim 13, Barnard teaches a system for processing mark up data for a map comprising a server (Col. 17, Lines 31-65) configured to: (a) obtain a file comprised of markup data for a map (Col. 20, Lines 11-15); (b) convert the markup data to coordinate data (Col. 13, Lines 3-16, Col. 15, Lines 45-47, Lines 56-59); and (c) use the coordinate data to obtain a standard data format (Col. 23, Lines 2-7, 9-28, it is well known to one ordinary skill in the art SDF or standard a data format known as ASCII, US PN 5,687,254 Col. 1, Lines 41,4) file that can be used to superimpose the markup data on the map (Col. 17, Lines 57-61).

Regarding Claim 14, Barnard teaches the coordinate data comprises mapping coordinate system (MCS) coordinates and the server is further configured to convert the MCS coordinates to latitude/longitude coordinates (Col. 18, Lines 2-7, Col. 13, Lines 3-16, Col. 15, Lines 25-36, Lines 45-47, data received via internet provides latitude/longitude coordinates Lines 56-59).

Regarding Claim 15, Barnard teaches a graphical user interface for obtaining redline markup data (Col. 13, Lines 34-41); for a map on a personal digital assistant (Col. 12, Lines 15-25) the graphical user interface (Col. 6, lines 34-42) comprising: (a) determine when a new redline object has been selected (Col. 13, Lines 34-41); and (b) obtain a redline object (Geometric scribbles (points, lines polygon, symbols), GPS input coordinates, annotations and a geo-reference systems) (Col. 15, Lines 36-54, 56-58, Col. 16, Col. 16, Lines 37-42, Col. 21, Lines 47-62, Col. 22, Lines 14-40, Col. 23, Lines 2-7, 9-27) while a stylus remains in contact with a screen of the personal digital assistant (Col. 13, Lines 49-52, Col. 13, Lines 34-41, Col. 14, Lines 9-11).

Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10, Lines 18-21).

Regarding Claim 16, Barnard teaches (a) display a text edit dialog box on the screen (Col. 20, Lines 56-60) of the personal digital assistant (Col. 19, Lines 4-7); and (b) accept text user input in the text edit dialog box (Col. 20, Lines 56-60).

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Regarding Claim 18, Barnard teaches a graphical user interface for obtaining redline markup data (Col. 13, Lines 34-41); for a map on a personal digital assistant (Col. 12, Lines 15-25) the graphical user interface (Col. 6, lines 34-42) comprising: (a) determine when a new note object has been selected (Col. 20, Lines 56-58, Col. 21, Lines 48-55); (b) accept a user selection of; an anchor point in a display of a map on the personal digital assistant (Col. 21, Lines 55-60); (c) display a text entry screen on the personal digital assistant (Col. 20, Lines 56-60, Col. 21, Lines 53-67, Col. 22, Lines 2-5); (d) accept text user input in the text entry screen (Col. 21, lines 65-67); and (e) display an icon (Webster defines icon as pictorial representation, Col. 18, Lines 58-60, Col. 23, Lines 2-7, Col. 24, Lines 2-9, where “CoG” or “FoG” are ICON representing a specific file to be opened by stylus, Col. 21, Lines 53-55 where each button displayed are pictorial representation and are ICON) representative of a note at the anchor point (Col. 21, Lines 55-60, Col. 22, Lines 2-5 starting and ending points are anchor point it is well known to one ordinary skill in the art a predetermined anchor point of zone, e.g. its centroid, its top left corner US PN 6,724,382 Col. 7, Lines 59-62).

Delorme et al. teaches (e) display an icon (Webster defines icon as pictorial representation, Col. 48, lines 62-67, Col. 58, Lines 16-26) representative of a note at the anchor point (Col. 48, Lines 13-15, Boothbay Me is an anchoring point, it is well known to one ordinary skill in the art a predetermined anchor point of zone, e.g. its centroid, its top left corner US PN 6,724,382 Col. 7, Lines 59-62).

Regarding Claim 19, Barnard teaches synchronizing the redline (Geometric scribbles (points, lines polygon, symbols), GPS input coordinates, annotations and a geo-reference systems) (Col. 15, Lines 36-54, 56-58, Col. 16, Col. 16, Lines 37-42, Col. 21, Lines 47-62, Col. 22, Lines 14-40, Col. 23, Lines 2-7, 9-27) markup data with a server (Col. 16, Line 51 to Col. 17, Line 21, Col. 17, Line 57 to Col. 18, Line 2).

Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10, Lines 18-21).

Regarding Claim 20, Barnard teaches obtaining a file comprised of markup data for a map on a personal digital assistant (Col. 12, Lines 15-25, Col. 17, Lines 49-65); and uploading the file from the personal digital assistant to a server (Col. 17, Line 62 to Col. 18, Line 2).

Regarding Claim 21, Barnard teaches the markup data comprises pixel data (Col.12, Lines 37-39) for a markup entity (Col. 21, Lines 3-63).

Regarding Claim 22, Barnard teaches the obtaining comprises obtaining markup data from a user (Col. 16, Lines 55-63).

Regarding Claim 23, Barnard teaches the markup data is a redline line (Col. 13, Lines 49-52, Col. 13, Lines 34-41, Col. 14, Lines 9-11, (Geometric scribbles (points, lines polygon, symbols), GPS input coordinates, annotations and a geo-reference systems) (Col. 15, Lines 36-54, 56-58, Col. 16, Col. 16, Lines 37-42, Col. 21, Lines 47-62, Col. 22, Lines 14-40, Col. 23, Lines 2-7, 9-27)).

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Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10, Lines 18-21).

Regarding Claim 24, Barnard teaches (a) determine when a new redline object has been selected (Col. 13, Lines 34-41); and (b) obtain a redline object (Geometric scribbles (points, lines polygon, symbols), GPS input coordinates, annotations and a geo-reference systems) (Col. 15, Lines 36-54, 56-58, Col. 16, Col. 16, Lines 37-42, Col. 21, Lines 47-62, Col. 22, Lines 14-40, Col. 23, Lines 2-7, 9-27) while a stylus remains in contact with a screen of the personal digital assistant (Col. 13, Lines 49-52, Col. 13, Lines 34-41, Col. 14, Lines 9-11).

Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10, Lines 18-21).

Regarding Claim 25, Barnard teaches (a) display a text edit dialog box on the screen (Col. 20, Lines 56-60) of the personal digital assistant (Col. 19, Lines 4-7); and (b) accept text user input in the text edit dialog box (Col. 20, Lines 56-60).

Regarding Claim 26, Barnard teaches the markup data (Col. 15, Lines 45-47) is note (Col. 20, Lines 56-60, Col. 21, Lines 53-67, Col. 22, Lines 2-5).

Regarding Claim 27, Barnard teaches (a) determine when a new note object has been selected (Col. 21, Lines 48-55); (b) accept a user selection of; an anchor point in a display of a map on the personal digital assistant (Col. 21, Lines 55-60); (c) display a text entry screen on the

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personal digital assistant (Col. 20, Lines 56-60, Col. 21, Lines 53-67, Col. 22, Lines 2-5); (d) accept text user input in the text entry screen (Col. 21, lines 65-67); and (e) display an icon (Col. 23, Lines 2-27, Lines 30-56, Col. 24, lines 2-16, where “CoG” or “FoG” are ICON representing a specific file to be opened by stylus) representative of a note at the anchor point (Col. 21, Lines 65-67, Col. 22, Lines 2-5).

Regarding Claim 28, Barnard teaches the application uploads the data to a server by (Col. 36, Lines 33-42): (a) obtaining a socket connection (Col. 12, Lines 15-21, PC window software pass 1995 Win Sock driver which manages a network socket connection effectively supports bi-directional data downloading as well as uploading); (b) obtaining an inventory of resident mapsets (Col. 17, Lines 49-55); (c) searching for markup data associated with the resident mapsets (Col. 17, Lines 57-65); and (d) uploading all resident markup data to the server (Col. 17, Line 62 to Col. 18, Line 2).

Regarding claim 29, Barnard teaches the markup data is uploaded to a server directory on the server using a hypertext transfer protocol PUT request (Col. 17, Lines 49-52, Col. 15, Lines 32-36, Lines 45-47).

Regarding Claim 30, Barnard teaches the application on the personal digital assistant (Col. 12, Lines 15-25) further configured to: (a) download any new mapsets (Col. 17, Lines 36-42, Col. 20, Lines 11,12); (b) delete unreferenced mapsets (Col. 20, Lines 43-45); and (c) delete any markup data associated with the deleted mapsets (Col. 20, Lines 43-49).

Regarding Claim 31, Barnard teaches a system for processing mark up data for a map comprising a server (Col. 17, Lines 31-65) configured to: (a) obtain a file comprised of markup data for a map (Col. 20, Lines 11-15); (b) convert the markup data to coordinate data (Col. 13, Lines 3-16, Col. 15, Lines 45-47, Lines 56-59); and (c) use the coordinate data to obtain a standard data format (SDF) (Col. 23, Lines 2-7, 9-28) file that can be used to superimpose the markup data on the map (Col. 17, Lines 57-61).

Regarding Claim 33, Barnard teaches a graphical user interface for obtaining redline markup data (Col. 13, Lines 34-41); for a map on a personal digital assistant (Col. 12, Lines 15-25) the graphical user interface (Col. 6, lines 34-42) comprising: (a) determine when a new redline object has been selected (Col. 13, Lines 34-41); and (b) obtain a redline object (Geometric scribbles (points, lines polygon, symbols), GPS input coordinates, annotations and a geo-reference systems) (Col. 15, Lines 36-54, 56-58, Col. 16, Col. 16, Lines 37-42, Col. 21, Lines 47-62, Col. 22, Lines 14-40, Col. 23, Lines 2-7, 9-27) (Geometric scribbles (points, lines polygon, symbols), GPS input coordinates, annotations and a geo-reference systems) (Col. 15, Lines 36-54, 56-58, Col. 16, Col. 16, Lines 37-42, Col. 21, Lines 47-62, Col. 22, Lines 14-40, Col. 23, Lines 2-7, 9-27) while a stylus remains in contact with a screen (Col. 13, Lines 49-52, Col. 13, Lines 34-41, Col. 14, Lines 9-11) of the personal digital assistant (Col. 12, Lines 15-25). Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10, Lines 18-21).

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Regarding Claim 34, Barnard teaches (a) display a text edit dialog box on the screen (Col. 20, Lines 56-60) of the personal digital assistant (Col. 19, Lines 4-7); and (b) accept text user input in the text edit dialog box (Col. 20, Lines 56-60).

Regarding Claim 36, Barnard teaches a graphical user interface for obtaining redline markup data (Col. 13, Lines 34-41); for a map on a personal digital assistant (Col. 12, Lines 15-25) the graphical user interface (Col. 6, lines 34-42) the method comprising: (a) determine when a new note object has been selected (Col. 20, Lines 56-58, Col. 21, Lines 48-55); (b) accept a user selection of; an anchor point in a display of a map on the personal digital assistant (Col. 21, Lines 55-60); (c) display a text entry screen on the personal digital assistant (Col. 20, Lines 56-60, Col. 21, Lines 53-67, Col. 22, Lines 2-5); (d) accept text user input in the text entry screen (Col. 21, lines 65-67); and (e) display an icon (Col. 23, Lines 2-27, Lines 30-56, Col. 24, lines 2-16, where "CoG" or "FoG" are ICON representing a specific file to be opened by stylus) representative of a note at the anchor point (Col. 21, Lines 65-67, Col. 22, Lines 2-5). Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10, Lines 18-21).

Regarding Claim 57, Barnard teaches the file comprised of markup data (file, Col. 18, Lines 3-20, Col. 25, Lines 34-56) is separate from a file comprised of the map (Col. 15, Lines 17-53, Col. 16, Lines 51-67, Col. 41, Lines 8-64, Col. 27, Lines 31-33).

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Regarding Claim 58, Barnard teaches the file comprised of markup data (file, Col. 18, Lines 3-20, Col. 25, Lines 34-56) is separate from a file comprised of the map (Col. 15, Lines 17-53, down loads standard map from internet and overlays his own marked up map data file, Col. 16, Lines 51-67, Col. 41, Lines 8-64, Col. 27, Lines 31-33).

Regarding Claim 59, Barnard teaches the file comprised of markup data (file, Col. 18, Lines 3-20, Col. 25, Lines 34-56) is separate from a file comprised of the map (Col. 15, Lines 17-53, down loads standard map from internet and overlays his own marked up map data file, Col. 16, Lines 51-67, Col. 41, Lines 8-64, Col. 27, Lines 31-33).

Regarding Claim 60, Barnard teaches the file comprised of markup data (file, Col. 18, Lines 3-20, Col. 25, Lines 34-56) is separate from a file comprised of the map (Col. 15, Lines 17-53, Col. 16, Lines 51-67, Col. 41, Lines 8-64, Col. 27, Lines 31-33).

5. Claims 38-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Neal (6,192,518 B1) in view of Barnard (6,456,938 B1).

Regarding Claim 38, Neal teaches an article of manufacture comprising a program storage medium readable by a computer hardware device and embodying one or more instructions executable by the computer hardware device (Col. 12, Lines 38-41).

However, Neal fails to teach performing a method for obtaining note markup data for a map on a personal digital assistant, obtaining note markup data; obtaining a file comprised of

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- markup data for a map on a personal digital assistant and uploading the file from the personal digital assistant to a server.

However, Barnard teaches performing a method for obtaining note markup data for a map on a personal digital assistant, obtaining note markup data (Col. 13, Lines 34-41); obtaining a file comprised of markup data for a map (Col. 20, Lines 11-15) on a personal digital assistant (Col. 12, Lines 15-25) and uploading the file from the personal digital assistant (Col. 12, lines 15-25) to a server (Col. 17, Line 62 to Col. 18, Line 2).

Thus it would have been obvious to one in the ordinary skill in the art at the time of invention was made to incorporate the teaching of Neal in to the Barnard to be able to access previously created maps for downloading and editing by user and to provide for the uploading of maps and play data through a public access computer system such as internet on a PDA.

Regarding Claim 39, Barnard teaches the markup data comprises pixel data (Col.12, Lines 37-39) for a markup entity (Col. 21, Lines 3-63).

Regarding Claim 40, Barnard teaches the obtaining comprises obtaining markup data from a user (Col. 16, Lines 55-63).

6. Claims 41,42,44-49,51,52,54,61,62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Neal (6,192,518 B1) in view of Barnard (6,456,938 B1) as applied to claims 38-40 above, and further in view of Ching (6,560,620 B1).

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Regarding Claim 41, Barnard teaches the markup data is a redline line (Col. 13, Lines 49-52, Col. 13, Lines 34-41, Col. 14, Lines 9-11).

However, Neal modified by Barnard fail to recite specifically the markup data is a redline line.

However, Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10, Lines 18-21).

Thus it would have been obvious to one in the ordinary skill in the art at the time of invention was made to incorporate the teaching of Ching in to the Neal modified by Barnard fail. to be able to have system that can encode mark-up data as redline and have a capability to store, retrieve and compare with other documents.

Regarding Claim 42, Barnard teaches (a) determine when a new redline object has been selected (Col. 13, Lines 34-41); and (b) obtain a redline object (Geometric scribbles (points, lines polygon, symbols), GPS input coordinates, annotations and a geo-reference systems) (Col. 15, Lines 36-54, 56-58, Col. 16, Col. 16, Lines 37-42, Col. 21, Lines 47-62, Col. 22, Lines 14-40, Col. 23, Lines 2-7, 9-27) while a stylus remains in contact with a screen of the personal digital assistant (Col. 13, Lines 49-52, Col. 13, Lines 34-41, Col. 14, Lines 9-11).

Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10, Lines 18-21).

Regarding Claim 44, Barnard teaches the markup data (Col. 15, Lines 45-47) is note (Col. 20, Lines 56-60, Col. 21, Lines 53-67, Col. 22, Lines 2-5).

Regarding Claim 45, Barnard teaches a graphical user interface for obtaining redline markup data (Col. 13, Lines 34-41); for a map on a personal digital assistant (Col. 12, Lines 15-25) the graphical user interface (Col. 6, lines 34-42) the method comprising: (a) determine when a new note object has been selected (Col. 20, Lines 56-58, Col. 21, Lines 48-55); (b) accept a user selection of; an anchor point in a display of a map on the personal digital assistant (Col. 21, Lines 55-60); (c) display a text entry screen on the personal digital assistant (Col. 20, Lines 56-60, Col. 21, Lines 53-67, Col. 22, Lines 2-5); (d) accept text user input in the text entry screen (Col. 21, lines 65-67); and (e) display an icon (Col. 23, Lines 2-27, Lines 30-56, Col. 24, lines 2-16, where “CoG” or “FoG” are ICON representing a specific file to be opened by stylus) representative of a note at the anchor point (Col. 21, Lines 65-67, Col. 22, Lines 2-5).

Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10, Lines 18-21).

Regarding Claim 46, Barnard teaches the application uploads the data to a server by (Col. 36, Lines 33-42): (a) obtaining a socket connection (Col. 12, Lines 15-21, PC window software pass 1995 Win Sock driver which manages a network socket connection effectively supports bi-directional data downloading as well as uploading); (b) obtaining an inventory of resident mapsets (Col. 17, Lines 49-55); (c) searching for markup data associated with the resident mapsets (Col. 17, Lines 57-65); and (d) uploading all resident markup data to the server (Col. 17, Line 62 to Col. 18, Line 2).

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Regarding Claim 47, Barnard teaches the markup data is uploaded to a server directory on the server using a hypertext transfer protocol PUT request (Col. 17, Lines 49-52, Col. 15, Lines 32-36, Lines 45-47).

Regarding Claim 48, Barnard teaches the application on the personal digital assistant (Col. 12, Lines 15-25) further configured to: (a) download any new mapsets (Col. 17, Lines 36-42, Col. 20, Lines 11,12); (b) delete unreferenced mapsets (Col. 20, Lines 43-45); and (c) delete any markup data associated with the deleted mapsets (Col. 20, Lines 43-49).

Regarding Claim 49, Neal teaches an article of manufacture comprising a program storage medium readable by a computer hardware device and embodying one or more instructions executable by the computer hardware device (Col. 12, Lines 38-41). Barnard teaches performing a method for obtaining (a) note markup data for a map on a personal digital assistant (Col. 12, Lines 15-25), obtaining note markup data (Col. 13, Lines 34-41); (b) convert the markup data to coordinate data (Col. 13, Lines 3-16, Col. 15, Lines 45-47, Lines 56-59); and (c) use the coordinate data to obtain a standard data format (SDF Col. 23, Lines 2-7, 9-28) file that can be used to superimpose the markup data on the map (Col. 17, Lines 57-61).

Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10, Lines 18-21).

Regarding Claim 51, Neal teaches an article of manufacture comprising a program storage medium readable by a computer hardware device and embodying one or more instructions executable by the computer hardware device (Col. 12, Lines 38-41).

Barnard teaches performing a method for obtaining note markup data for a map on a personal digital assistant (Col. 12, Lines 15-25), obtaining note markup data (Col. 13, Lines 34-41); the method comprising: (a) determine when a new redline object (Geometric scribbles (points, lines polygon, symbols), GPS input coordinates, annotations and a geo-reference systems) (Col. 15, Lines 36-54, 56-58, Col. 16, Col. 16, Lines 37-42, Col. 21, Lines 47-62, Col. 22, Lines 14-40, Col. 23, Lines 2-7, 9-27) has been selected (Col. 13, Lines 34-41); and (b) obtain a redline object (Geometric scribbles (points, lines polygon, symbols), GPS input coordinates, annotations and a geo-reference systems) (Col. 15, Lines 36-54, 56-58, Col. 16, Col. 16, Lines 37-42, Col. 21, Lines 47-62, Col. 22, Lines 14-40, Col. 23, Lines 2-7, 9-27) while a stylus remains in contact with a screen of the personal digital assistant (Col. 13, Lines 49-52, Col. 13, Lines 34-41, Col. 14, Lines 9-11).

Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10, Lines 18-21).

Regarding Claim 52, Barnard teaches (a) display a text edit dialog box on the screen (Col. 20, Lines 56-60) of the personal digital assistant (Col. 19, Lines 4-7); and (b) accept text user input in the text edit dialog box (Col. 20, Lines 56-60).

Regarding Claim 54, Neal teaches an article of manufacture comprising a program storage medium readable by a computer hardware device and embodying one or more instructions executable by the computer hardware device (Col. 12, Lines 38-41).

Barnard teaches performing a method for obtaining note markup data for a map on a personal digital assistant, obtaining note markup data (Col. 13, Lines 34-41); for a map on a personal digital assistant (Col. 12, Lines 15-25) (a) determine when a new note object has been selected (Col. 20, Lines 56-58); (b) accept a user selection of; an anchor point in a display of a map on the personal digital assistant (Col. 21, Lines 45-60); (c) display a text entry screen on the personal digital assistant (Col. 20, Lines 56-60, Col. 21, Lines 53-67, Col. 22, Lines 2-5); (d) accept text user input in the text entry screen (Col. 21, lines 65-67); and (e) display an icon representative of a note at the anchor point (Col. 21, Lines 65-67, Col. 22, Lines 2-5).

Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10, Lines 18-21).

Regarding Claim 61, Barnard teaches the file comprised of markup data (file, Col. 18, Lines 3-20, Col. 25, Lines 34-56) is separate from a file comprised of the map (Col. 15, Lines 17-53, Col. 16, Lines 51-67, Col. 41, Lines 8-64, Col. 27, Lines 31-33).

Regarding Claim 62, Barnard teaches the file comprised of markup data (file, Col. 18, Lines 3-20, Col. 25, Lines 34-56) is separate from a file comprised of the map (Col. 15, Lines 17-53, Col. 16, Lines 51-67, Col. 41, Lines 8-64, Col. 27, Lines 31-33).

Allowable Subject Matter

7. Claims 6,10,17,32,35,37,43,50,53,55,56 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

8. The following is an examiner's statement of reasons for allowance:

A system for processing markup data for a map on a personal digital assistant comprising: (a) a personal digital assistant; (b) an application on the personal digital assistant, the application configured to: (i) obtain **a map as an encoded and spatially indexed vector representation of geographic data from a server;** (ii) **display the map on a screen of the personal digital assistant;** (iii) **obtain markup data comprised of pixel data from a user that utilizes a stylus to markup the map displayed on the personal digital assistant, (IV) create a file comprised of the markup data;** (v) **upload the file of markup data from the personal digital assistant to the server and the personal digital assistant obtains the file by obtaining markup data from a user the markup data is a redline line and the application configured to obtain the markup data from a user is further configured to: (a) determine when a new redline object has been selected; and (b) obtain a redline object while a stylus remains in contact with a screen of the personal digital assistant and the file comprised of markup data is separate from a file of the geographic data.**

The cited references on 892's fail to anticipate individually or render obviousness individually as well as in combination the underlined bold above claim.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

9. Applicant's arguments filed 08-02-2005 have been fully considered but they are not persuasive.

Applicant argues cited references of Barnard and Delorme et al. fails to teach disclose or recite encoded and spatially indexed vector representation of geographic data.

Examiner disagrees, It will be unusual for Barnard to recite encoding in the Claims and do not have support for it in detailed description. Barnard teaches (i) obtain a map as an encoded (Col. 14, lines 34-67, Barnard does teach encoding (Google defines as detail information assigned specific coding, e. g. lines, points and features, attributes is spatially index vectorized), Col. 21, Lines 18-45, begins marking feature per each holes, Col. 24, Lines 40,41, view the marking, Col. 25, Lines 34-37, the data is uploaded as a file and Col. 25, Lines 63-67, saved on non volatile RAM or removable Ram Card acts as a disk) and spatially indexed vector representation of geographic data from a server (Col. 14, Lines 34-64, Col. 18, Lines 58-60, where each spatially vectored feature are labeled (another word for indexed defined by Webster dictionary).

Delorme et al. teaches obtain a map as an encoded (Col.63, Lines 60-63) and spatially (Col. 38, Lines 17-22) indexed (Webster defines as ID or label, in this case grid name (Col. 63,

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Lines 60-63) vector representation of geographic data (Col. 52, Lines 31-38, Col. 63-38-58) from a server (Col. 61, Line 1, CAMLS server).

Applicant argues RAM is a temporary storage device.

Examiner disagrees as Bernard teaches RAM is a non-volatile (not a temporary storage device) (Col. 25, Lines 63-67, saved on non volatile RAM or removable Ram Card acts as a disk).

Applicant argues cited references fail to disclose or suggest displaying an ICON representative of a note at an anchor point selected by a user.

Examine disagrees as Bernard teaches (e) display an icon (Webster defines icon as pictorial representation, Col. 18, Lines 58-60, Col. 23, Lines 2-7, Col. 24, Lines 2-9; where “CoG” or “FoG” are ICON representing a specific file to be opened by stylus, Col. 21, Lines 53-55 where each button displayed are pictorial representation and are ICON) representative of a note at the anchor point (Col. 21, Lines 55-60, Col. 22, Lines 2-5 starting and ending points are anchor point it is well known to one ordinary skill in the art a predetermined anchor point of zone, e.g. its centroid, its top left corner US PN 6,724,382 Col. 7, Lines 59-62).

Delorme et al. teaches (e) display an icon (Webster defines icon as pictorial representation, Col. 48, lines 62-67, Col. 58, Lines 16-26) representative of a note at the anchor point (Col. 48, Lines 13-15, Boothbay Me is an anchoring point, it is well known to one ordinary skill in the art a predetermined anchor point of zone, e.g. its centroid, its top left corner US PN 6,724,382 Col. 7, Lines 59-62).

Applicant argues Cited references fail to teach Uploading of a map to a server.

Examiner disagrees Barnard teaches the markup data is uploaded to a server directory on the server using a hypertext transfer protocol PUT request (Col. 17, Lines 49-52, Col. 15, Lines 32-36, Lines 45-47, It is well Known to one ordinary skill in the art dealing with internet software that The most wide spread method of providing information over the Internet is via the World Wide Web (the Web). The Web consists of a subset of the computers connected to the Internet; the computers in this subset run Hypertext transfer Protocol (HTTP) servers (Web servers) which provides Hypertext transfer Protocol "PUT" and Hypertext Transmission Protocol "GET" command US PN 6665824 Col. 7, Lines 42-47, Col. 10, Lines 19-23).

Applicant argues Cited references fails to teach downloaded set off unreferenced maps deletion.

Examiner disagrees Barnard teaches the application on the personal digital assistant (Col. 12, Lines 15-25) further configured to: (a) download any new map sets (Col. 17, Lines 36-42, Col. 20, Lines 11,12); (b) delete un-referenced map sets (Col. 17, Lines 46-56, it is well known to one ordinary skill in the art as access internet anything that is not saved such as unreferenced material automatically gets overwritten or deleted); and (c) delete any markup data associated with the deleted map sets (Col. 20, Lines 43-49).

Applicant argues Cited references fails to teach SDF.

Examiner disagrees as Barnard teaches a system for processing mark up data for a map comprising a server (Col. 17, Lines 31-65) configured to: (a) obtain a file comprised of markup data for a map (Col. 20, Lines 11-15); (b) convert the markup data to coordinate data (Col. 13, Lines 3-16, Col. 15, Lines 45-47, Lines 56-59); and (c) use the coordinate data to obtain a standard data format (Col. 23, Lines 2-7, 9-28, it is well known to one ordinary skill in the art

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SDF or standard a data format known as ASCII, US PN 5,687,254 Col. 1, Lines 41,4) file that can be used to superimpose the markup data on the map (Col. 17, Lines 57-61).

Applicant argues Cited references fails to teach MCS coordinate into LAT/LON coordinates.

Examiner disagrees as Barnard teaches the coordinate data comprises mapping coordinate system (MCS) coordinates and the server is further configured to convert the MCS coordinates to latitude/longitude coordinates (Col. 18, Lines 2-7, Col. 13, Lines 3-16, Col. 15, Lines 25-36, Lines 45-47, data received via internet provides latitude/longitude coordinates Lines 56-59).

Applicant argues Cited references fails to teach new redline object.

Examiner disagrees a new redline object has been selected (Col. 13, Lines 34-41); and (b) obtain a redline object (Geometric scribbles (points, lines polygon, symbols), GPS input coordinates, annotations and a geo-reference systems) (Col. 15, Lines 36-54, 56-58, Col. 16, Col. 16, Lines 37-42, Col. 21, Lines 47-62, Col. 22, Lines 14-40, Col. 23, Lines 2-7, 9-27) while a stylus remains in contact with a screen of the personal digital assistant (Col. 13, Lines 49-52, Col. 13, Lines 34-41, Col. 14, Lines 9-11).

Ching teaches the encoded markup data is a redline line (Col. 6, Lines 17-35, Col. 20, Lines 6-10, Lines 18-21).

Applicant argues Cited references fails to teach markup data that is maintained in a separate file.

Examiner disagrees. as , Barnard teaches the file comprised of markup data (file, Col. 18, Lines 3-20, Col. 25, Lines 34-56) is separate from a file comprised of the map (Col. 15, Lines

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17-53, down loads standard map from internet and overlays his own marked up map data file, Col. 16, Lines 51-67, Col. 41, Lines 8-64, Col. 27, Lines 31-33).

Applicant argues storage taught by cited reference is not a disk.

Examiner argues back as none of the claim recites storage has to be a disk.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Weber et al. (5,564,005) Interactive system for producing, storing retrieving information correlated with a recording of an event..

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prabodh M Dharia whose telephone number is 571-272-7668. The examiner can normally be reached on M-F 8AM to 5PM.

12. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 571-272-7681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

13. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

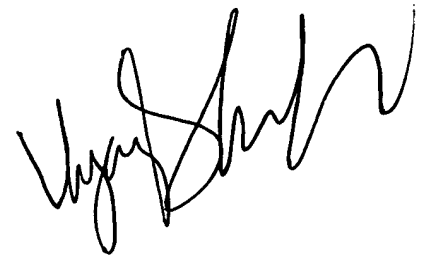
Commissioner of Patents and Trademarks

Washington, D.C. 20231

PD

AU2673

September 18, 2005

A handwritten signature in black ink, appearing to read 'Vijay Shankar', written in a cursive style.

**VIJAY SHANKAR
PRIMARY EXAMINER**